ELECTROMECHANICAL ACTUATORS

Abstract of the Disclosure

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A perovskite compound of the formula, $(Na_{1/2}Bi_{1/2})_{1-x}M_x$ $(Ti_{1-y}M'_y)O_{3\pm z}$, where M is one or more of Ca, Sr, Ba, Pb, Y, La, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu; and M' is one or more of Zr, Hf, Sn, Ge, Mg, Zn, Al, Sc, Ga, Nb, Mo, Sb, Ta, W, Cr, Mn, Fe, Co and Ni, and 0.01 < x < 0.3, and 0.01 < y < 0.3, and z < 0.1 functions as an electromechanically active material. The material may possess electrostrictive or piezoelectric characteristics.